

Jonathan Coignard

Computer sciences &
Electrical engineering

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56800 Augan

France

☎ (510)326-5396

✉ jonathan.coignard@gmail.com

🌐 www.jonathancoignard.com

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Education

2010 – 2015 **Engineering degree - Master equivalent**, *Compiègne University of Technology*, France.
Urban systems engineering, specializing in electric power system - Research minor

Spring 2012 **Semester of studies abroad**, *Riga Technical University*, Latvia.
Electrical engineering

Relevant Experience

February 2015 to current **Scientific Engineering Associate**, *Lawrence Berkeley National Laboratory*.
Simulation tools for vehicle to grid interactions and grid reliability assessment:

- Cyber Physical Co-simulation Platform for Distributed Energy Resources (CyDER) - Transmission and distribution grid co-simulation using the Functional Mock-up Interface (FMI) standard.
- Vehicle to Grid Simulator (V2G-Sim) - Electric vehicle load forecast and optimal control for grid services.
- Distributed Energy Resources Customer Adoption Model (DER-CAM) - Impact of electricity pricing on customer's investments and future grid conditions.
- MyGreenCar - Web application to quantify fuel and cost savings from choosing a cleaner vehicle.

September 2013 to march 2014 **Research engineer (internship)**, *CEREMA*, Brest.
Near shore quantification of incident wave energy and economical study of the *kWh* price for wave energy systems.

- Conference paper "EMACOP project: characterizing the wave energy resources of hot spots in Brittany for on-shore WEC" for The European Wave and Tidal Energy Conference (2015 EWTEC).
- Journal paper "EMACOP project: Digital modeling of the waves toward Esquibien's dam using SWASH" in the online journal *Paralia*. Presented at The National days of Coastal Engineering and Civil Engineering (2014 congress).

2012 to 2015 **Master student**, *Compiègne University of Technology*.

- Thesis project: optimization of the power supplied by a small scale wind-turbine using current and voltage measurements. Numerical modeling of a wind-turbine using SIMULINK/MATLAB, and practical implementation on a test bench.
- President of the digital and paper drawing association "*DaDa*".

Summers of 2011 to 2014 **Volunteering**, *Archelon, The Sea Turtle Protection Society Of Greece*.
Conservation of the endangered species *Caretta caretta* (loggerhead sea turtle) at influential nesting beaches in the Mediterranean.

Skills

Programming Python, Django, Docker, Git, D3.js, PowerFactory, CymDIST, FMI standard, SQL, PostgreSQL, Redis, MATLAB and Simulink, OPAL-RT, Solidity, Latex

Languages French: mother tongue - English: fluent - Spanish: intermediary

For more information, <http://jonathancoignard.com>